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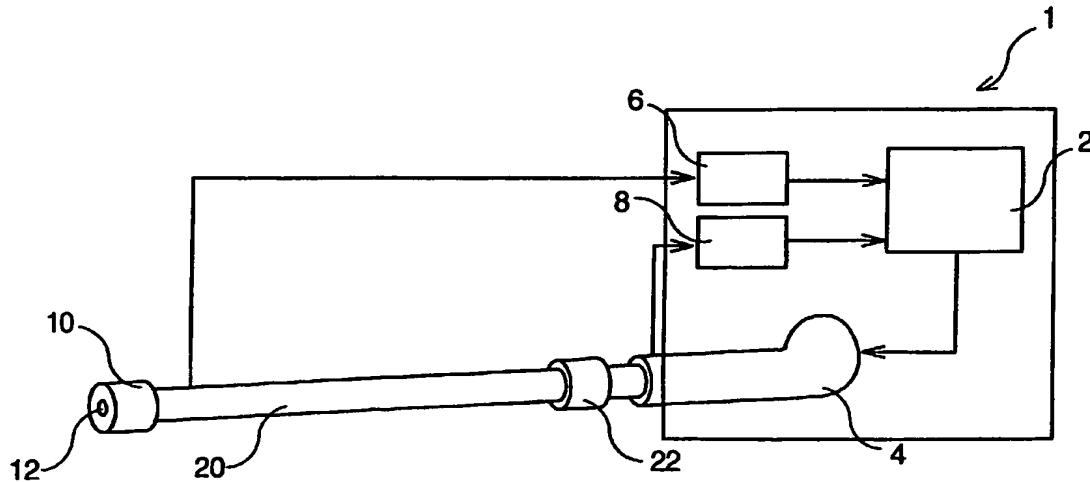
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(54) Title: A BREATHING APPARATUS WITH COMPUTATION OF THE AIRFLOW PROVIDED TO THE PATIENT USING ONLY PRESSURE SENSORS



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(57) Abstract: The invention concerns an apparatus (1) to assist patient respiration by delivering air to a patient through a mask, said mask being designed to be connected on one first extremity of a tube (20), said apparatus (1) comprising, a) a control unit (2) to adjust the pressure delivered by the blower (4) of said apparatus (1), b) a first pressure sensor (6) for sensing the pressure PM at said first tube extremity and being connected to said control unit (2), and c) a second pressure sensor (8) for sensing the pressure PB at the air output of said blower (4) and being connected to said control unit (2); in order that, when a tube (20) is connected to said mask and connected to said apparatus (1) on its said second extremity, the air flowing from the apparatus (1) to the mask, said control unit (2) is able to calculate the airflow at said, second extremity of the tube (20) from said pressures PM and PB and from the airflow resistance coefficient K_r of said tube (20).



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 0 821 976 A (SIEMENS ELEMA AB) 4 February 1998 (1998-02-04) abstract; figures ---	1-19
A	WO 98 57691 A (MARTIN DION CHARLES CHEWE ;RESMED LTD (AU); KENYON BARTON JOHN (AU) 23 December 1998 (1998-12-23) abstract; figures ---	1-19
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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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